US Environmental Protection Agency
Office of Pesticide Programs

List D: EPA’s Registered Antimicrobial Products
Effective Against Human HIV-1 and Hepatitis B Virus

January 9, 2009
Alphabetical Order
List D: EPA’s Registered Antimicrobial Products Effective Against Human HIV-1 and Hepatitis B Virus (Updated January 9, 2009)

Product: ACCEL TB
EPA Reg#: 74559-1
Registrant: VIROX TECHNOLOGIES INC.
Approval Date: 04/18/2006
Active Ingredients: Hydrogen peroxide 0.5%

Product: ACLD-64
EPA Reg#: 1839-216 (transferred from EPA Reg#3377-59; for label see EPA Reg#3377-59)
Registrant: STEPAN CO.
Approval Date: 02/14/2002
Active Ingredients: Didecyl dimethyl ammonium chloride 2.8775%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 2.3625%

Product: ACLD-128
EPA Reg#: 1839-215 (transferred from EPA Reg#3377-58; for label see EPA Reg#3377-58)
Registrant: STEPAN CO.
Approval Date: 02/14/2002
Active Ingredients: Didecyl dimethyl ammonium chloride 5.755%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10% C16) 4.725%

Product: ACLD-256
EPA Reg#: 1839-214 (transferred from EPA Reg#3377-57; for label see EPA Reg#3377-57)
Registrant: STEPAN CO
Approval Date: 02/14/2002
Active Ingredients: Didecyl dimethyl ammonium chloride 11.51%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10% C16) 9.45%

Product: ACTRIL COLD STERILANT
EPA Reg#: 52252-7
Registrant: MINNTECH CORP
Approval Date: 08/11/1988
Active Ingredients: Hydrogen peroxide 0.8%; Peroxyacetic acid 0.06%
Product: ALPET D2
EPA Reg#: 73232-1
Registrant: BEST SANITIZERS, INC
Approval Date: 11/23/2005
Active Ingredients: 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride 0.003%
1-Decanaminium, N-decyl,N,N-dimethyl-, chloride 0.0045%
1-Decanaminium, N,N-dimethyl-N-octyl-chloride 0.0075%; Isopropyl alcohol 58.6%

Product: AMERI-KLEEN WHIRLPOOL PEDICURE SPA ONE STEP DISINFECTANT
EPA Reg#: 75848-1
Registrant: AMERI-KLEEN CORP.
Approval Date: 01/10/2007
Active Ingredients: Octyl decyl dimethyl ammonium chloride 3.255%
Dioctyl dimethyl ammonium chloride 1.302%; Didecyl dimethyl ammonium chloride 1.953%
Alkyl* dimethyl benzyl ammonium chloride *(50% C14, 40% C18, 10% C16) 4.340%

Product: ARC
EPA Reg#: 777-105
Registrant: RICKET BENCKISER Inc.
Approval Date: 07/01/2008
Active Ingredients: Ethanol 60.825%
Alkyl* dimethyl benzyl ammonium saccharinate *(50% C14, 40% C12, 10% C16) 0.1%

Product: ASEPTROL S10-TAB
EPA Reg#: 70060-19
Registrant: ENGELHARDT CORP
Approval Date: 10/22/2007
Active Ingredients: Sodium chlorite 20.8%; Sodium dichloroisocyanurate dihydrate 7.0%

Product: BARBICIDE
EPA Reg#: 954-11
Registrant: KING RESEARCH INC
Approval Date: 07/01/2004
Active Ingredients: Alkyl* dimethyl benzyl ammonium chloride *(50% C14, 40% C12, 10% C16) 5.12%

Product: BARDAC 205M-14.08
EPA Reg#: 6836-278
Registrant: Lonza Inc
Approval Date: 09/19/2007
Active Ingredients: Octyl decyl dimethyl ammonium chloride 4.224%
Alkyl* dimethyl benzyl ammonium chloride *(50% C14, 40% C12, 10% C16) 5.632%
Dioctyl dimethyl ammonium chloride 1.69%; Didecyl dimethyl ammonium chloride 2.534%
Product: BARDAC 205M-10  
EPA Reg#: 6836-266  
Registrant: Lonza Inc  
Approval Date: 12/13/2006  
Active Ingredients: 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride 1.2%  
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 4%  
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 1.8%  
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride 3%

Product: BARDAC 205M-23  
EPA Reg#: 6836-305  
Registrant: Lonza Inc  
Approval Date: 09/13/2006  
Active Ingredients: Octyl decyl dimethyl ammonium chloride 6.912%  
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12,10%C16) 9.21%  
Didecyl dimethyl ammonium chloride 4.1472%;  
Octyl dimethyl ammonium chloride 2.7648%

Product: BATH MATE ACID FREE DISINFECTANT WASHROOM CLEANER  
EPA Reg#: 7176-25  
Registrant: THE BUTCHER COMPANY  
Approval Date: 16-Jul-1998  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-chloride 0.02%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 0.06%

Product: BARQUAT 42Z-10  
EPA Reg#: 6836-57  
Registrant: LONZA INC  
Approval Date: 10/06/2003  
Active Ingredients:  
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12,32%C14) 5.0%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 5.0%

Product: BIO CLEAN  
EPA Reg#: 670-2  
Registrant: SUNBURST CHEMICALS, INC.  
Approval Date: 09/08/1999  
Active Ingredients:  
Alkyl*dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 7.95%  
Alkyl*dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, C12) 7.950%

Product: BRACE  
EPA Reg#: 777-99  
Registrant: RECKITT BENCKISER INC.  
Approval Date: 12/27/2005  
Active Ingredients: Ethanol 58.0%  
Alkyl* dimethyl benzyl ammonium saccharinate *(50% C14, 40% C12, 10% C16) 0.1%
Product: BRACE KITCHEN
EPA Reg#: 777-98
Registrant: RECKITT BENCKISER INC.
Approval Date: 12/27/2005
Active Ingredients: Ethanol 58.0%
                 Alkyl* dimethyl benzyl ammonium saccharinate *(50% C14, 40% C12, 10% C16) 0.1%

Product: BROADSPEC 256
EPA Reg#: 106-79
Registrant: BRULIN & COMPANY INC
Approval Date: 10/14/87
Active Ingredients: Dioctyl dimethyl ammonium chloride 2.110%
                   Alkyl* dimethyl benzyl ammonium chloride *(50% C14, 40% C12, 10% C16) 5.63%
                   Didecyl dimethyl ammonium chloride 2.85%; Octyl decyl dimethyl ammonium chloride 4.22%

Product: BTC 885 NEUTRAL DISINFECTANT CLEANER-32
EPA Reg#: 1839-168
Registrant: STEPAN COMPANY
Approval Date: 03/09/1994
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.407%
                   Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 1.085%
                   Didecyl dimethyl ammonium chloride 0.407%; Octyl decyl dimethyl ammonium chloride 0.814%

Product: BTC 885 NEUTRAL DISINFECTANT CLEANER-64
EPA Reg#: 1839-169
Registrant: STEPAN COMPANY
Approval Date: 03/11/1994
Active Ingredients:
                   Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 2.17%
                   Didecyl dimethyl ammonium chloride 0.814%; Octyl decyl dimethyl ammonium chloride 1.627%
                   Dioctyl dimethyl ammonium chloride 0.814%

Product: BTC 885 NEUTRAL DISINFECTANT CLEANER 128
EPA Reg#: 1839-166
Registrant: STEPAN COMPANY
Approval Date: 03/01/2007
Active Ingredients:
                   Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 2.17%
                   Didecyl dimethyl ammonium chloride 1.628%
                   Octyl decyl dimethyl ammonium chloride 3.255%

Product: BTC 885 NEUTRAL DISINFECTANT CLEANER-256
EPA Reg#: 1839-167
Registrant: STEPAN COMPANY
Approval Date: 03/11/1994
Active Ingredients: Dioctyl dimethyl ammonium chloride 3.255%
                   Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 8.68%
                   Didecyl dimethyl ammonium chloride 3.255%; Octyl decyl dimethyl ammonium chloride 6.51%
Product: BTC 2125 M 10% SOLUTION
EPA Reg#: 1839-86
Registrant: STEPAN COMPANY
Approval Date: 09/18/2007
Active Ingredients:
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 5.0%
Alkyl*dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 5.0%

Product: BTC 2125M 20% SOLUTION
EPA Reg#: 1839-155
Registrant: STEPAN COMPANY
Approval Date: 25-Mar-1991
Active Ingredients:
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14) 10%
Alkyl*dimethylbenzylammonium chloride*(60%C14,30%C16,5%C18, 5%C12)10%

Product: BURNISHINE GERMICIDAL SOLUTION
EPA Reg#: 1130-15
Registrant: BURNISHINE PRODUCTS
Approval Date: 03/28/2006
Active Ingredients:
Alkyl*dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.154%
Alkyl*dimethyl benzyl ammonium chloride *(60%C14, 30%C16,5%C18, 5%C12) 0.154%

Product: BUTCHER’S COMMAND CENTER 16 BATH MAE ACID FREE DISINFECTANT
EPA Reg#: 7176-26
Registrant: BUTCHER CO
Approval Date: 07/16/1998
Active Ingredients:
Alkyl*dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 0.78%

Product: CALTECH SWAT 200 9B
EPA Reg#: 56392-10
Registrant: CALTECH INDUSTRIES INC
Approval Date: 07-Jun-2005
Active Ingredients: Sodium hypochlorite 0.62%

Product: CAVICIDE
EPA Reg#: 46781-6
Registrant: METREX RESEARCH CORP
Approval Date: 11/20/1988
Active Ingredients: Isopropanol 17.2%; Diisobutylphenoxyethyl dimethyl benzyl ammonium chloride 0.28%
Product: CAVIWIPES  
EPA Reg#: 46781-8  
Registrant: METREX RESEARCH CORP  
Approval Date: 08/01/2007  
Active Ingredients: Isopropanol 14.3%  
Diisobutyl-phenoxy-ethoxyethyl dimethyl benzyl ammonium chloride 0.23%

Product: CCX-151  
EPA Reg#: 61178-5  
Registrant: MICROGEN, INC  
Approval Date: 03/29/2005  
Active Ingredients:  
Alkyl*dimethylethylbenzylammoniumchloride*(68%C12,32%C14)13.238%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14,30%C16,5%C18,5%C12) 13.238%

Product: CDC-10  
EPA Reg#: 5741-21  
Registrant: SPARTAN CHEMICAL COMPANY, INC. MICROGEN, INC  
Approval Date: 10/14/1987  
Active Ingredients:  
Diocetyl dimethyl ammonium chloride 0.09%  
Alkyl*dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 0.240%  
Didecyl dimethyl ammonium chloride 0.09%;  
Octyl decyl dimethyl ammonium chloride 0.18%

Product: CITRACE HOSPITAL GERMICIDAL DEODORIZER  
EPA Reg#: 56392-2  
Registrant: CALTECH INDUSTRIES INC  
Approval Date: 03/21/2006  
Active Ingredients: Ethyl alcohol 66.600%; Phenylphenol 0.1200%

Product: CITREX HOSPITAL SPRAY DISINFECTANT  
EPA Reg#: 56392-4  
Registrant: CALTECH INDUSTRIES INC  
Approval Date: 12/16/2005  
Active Ingredients: Ethyl alcohol 69.1% ; Phenylphenol 0.13%

Product: CLEAN-CIDE READY TO USE GERMICIDAL DETERGENT  
EPA Reg#: 34810-35  
Registrant: WEXFORD LABS, Inc.  
Approval Date: 10/02/2007  
Active Ingredients: Citric acid 0.6%

Product: CLEAN-CIDE WIPE  
EPA Reg#: 34810-36  
Registrant: WEXFORD LABS, Inc.  
Approval Date: 11/01/2006  
Active Ingredients: Citric acid 0.6%
Product: CPPC STORM  
EPA Reg#: 67619-13  
Registrant: CLOROX PROFESSIONAL PRODUCTS CO  
Approval Date: 02/23/2006  
Active Ingredients: Sodium hypochlorite 2.4%

Product: CPPC TSUNAMI  
EPA Reg#: 67619-12  
Registrant: CLOROX PROFESSIONAL PRODUCTS CO  
Approval Date: 09/03/2008  
Active Ingredients: Sodium hypochlorite 0.55%

Product: CPPC ULTRA BLEACH 2  
EPA Reg#: 67619-8  
Registrant: Clorox Professional Products Co.  
Approval Date: 12/22/2008  
Active Ingredients: Sodium hypochlorite 6.15%

Product: D-125  
EPA Reg#: 61178-1  
Registrant: MICROGEN, INC  
Approval Date: 04/24/2004  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 2.25%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 2.25%

Product: DETERGENT DISINFECTANT PUMP SPRAY  
EPA Reg#: 1839-83  
Registrant: Stepan Company  
Approval Date: 06/14/2007  
Active Ingredients:  
Alkyl*dimethyl ethylbenzylammonium chloride* (68%C12,32%C14) 0.105%  
Alkyl*dimethyl benzyl ammonium chloride* (60%C14, 30%C16, 5%C18, 5%C12) 0.105%

Product: DISCIDE ULTRA DISINFECTING SPRAY  
EPA Reg#: 10492-5  
Registrant: PALMERO HEALTH CARE  
Approval Date: 10/04/2005  
Active Ingredients:  
Isopropyl alcohol 63.25%  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.12%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.12%

Product: DISCIDE ULTRA DISINFECTING TOWLETTES  
EPA Reg#: 10492-4  
Registrant: PALMERO HEALTH CARE  
Approval Date: 08/08/2007  
Active Ingredients:  
Isopropanol 63.25%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.12%  
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14) 0.12%
Product: DISINFECTANT D.C. 100
EPA Reg#: 70627-2
Registrant: S.C. JOHNSON COMMERCIAL MARKETS INC.
Approval Date: 09/29/1997
Active Ingredients:
Alkyl* dimethyl ethylbenzyl ammonium chloride*(68%C12,32%C14) 0.105%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14,30%C16,5%C18,5%C12) 0.105%

Product: DISPATCH HOSPITAL CLEANER DISINFECTANT WITH BLEACH
EPA Reg#: 56392-7
Registrant: CALTECH INDUSTRIES INC
Approval Date: 11/21/2007
Active Ingredient: Sodium hypochlorite 0.55%

Product: DISPATCH HOSPITAL CLEANER DISINFECTANT TOWEL WITH BLEACH
EPA Reg#: 56392-8
Registrant: CALTECH INDUSTRIES INC
Approval Date: 09/05/2006
Active Ingredient: Sodium hypochlorite 0.52%

Product: DMQ
EPA Reg#: 5741-20
Registrant: SPARTAN CHEMICAL COMPANY, INC
Approval Date: 02/21/2006
Active Ingredients:
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 4.5%

Product: EBIOX TRUKLEEN WIPES
EPA Reg#: 75512-1
Registrant: EBIOX LTD
Approval Date: 07/25/2007
Active Ingredients: Didecyl dimethyl benzyl ammonium chloride 0.451%
Alkyl dimethyl benzyl ammonium chloride(50%C12, 30%C14, 17%C16, 3%C18%) 0.499%
Poly (iminoimidocarboxyiminoimidocarbonyliminohexamethylenehydrochloride 0.1%;

Product: EBIOX TRUKLEEN SPRAY
EPA Reg#: 75512-2
Registrant: EBIOX LTD
Approval Date: 07/25/2007
Active Ingredients: Didecyl dimethyl benzyl ammonium chloride 0.1831%
Alkyl dimethyl benzyl ammonium chloride (50%C12, 30%C14, 17%C16, 3%C18%) 0.203%
Poly (iminoimidocarboxyiminoimidocarbonyliminohexamethylenehydrochloride 0.041%;
Product: EBIOX TRUKLEEN CONCENTRATE  
EPA Reg#: 75512-3  
Registrant: EBIOX LTD  
Approval Date: 04/04/2007  
Active Ingredients:  
- Didecyl dimethyl benzyl ammonium chloride 9.16%  
- Alkyl dimethyl benzyl ammonium chloride (50%C12, 30%C14, 17%C16, 3%C18%) 10.15%  
- Poly (iminoimidocarboxylliminoimidocarbonyliminohexamethylene)hydrochloride 2.03%;

Product: ECOTRU  
EPA Reg#: 70791-1  
Registrant: ENVIROSYSTEMS INC  
Approval Date: 10/02/98  
Active Ingredients:  
- 4-Chloro-3,5-Xylenol 0.2%

Product: ENVY FOAMING DISINFECTANT CLEANER  
EPA Reg#: 70627-35  
Registrant: JohnsonDiversey.  
Approval Date: 10/19/2004  
Active Ingredients:  
- Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.106%  
- Alkyl* dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14) 0.106%

Product: FOAMING AEROSOL DISINFECTANT CLEANER  
EPA Reg#: 7546-28  
Registrant: U S CHEMICAL CORPORATION  
Approval Date: 21-Sept-2005  
Active Ingredients:  
- Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.106%  
- Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.106%

Product: FOAMING AEROSOL DISINFECTANT CLEANER  
EPA Reg#: 5736-106  
Registrant: JOHNSON DIVERSEY COMPANY  
Approval Date: 03/13/-2007  
Active Ingredients:  
- Alkyl dimethyl ethylbenzyl ammonium chloride (68%%C12, 32%C14) 0.106%  
- Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C12, 5%C18) .106%

Product: FOAMING DISINFECTANT CLEANER  
EPA Reg#: 3862-181  
Registrant: ABC Compounding Co., Inc.  
Approval Date: 02/07/2006  
Active Ingredients:  
- Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.105%  
- Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.105%
Product: FORMULATION HWS-32
EPA Reg#: 47371-192
Registrant: H & S CHEMICALS DIVISION
Approval Date: 04/26/2007
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 1.27%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 0.85%

Product: FORMULATION HWS-64
EPA Reg#: 47371-131
Registrant: H & S CHEMICALS DIVISION
Approval Date: 04/26/2007
Active Ingredients: Didecyl dimethyl ammonium chloride 02.54%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 01.69%

Product: FORMULATION HWS-128 GERMICIDAL DETERGENT & DEODORANT
EPA Reg#: 47371-130
Registrant: H & S CHEMICALS DIVISION
Approval Date: 04/26/2007
Active Ingredients: Didecyl dimethyl ammonium chloride 5.07%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 3.38%

Product: FORMULATION HWS-256
EPA Reg#: 47371-129
Registrant: H & S CHEMICALS DIVISION
Approval Date: 02/28/2008
Active Ingredients: Didecyl dimethyl ammonium chloride 10.140%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 6.76%

Product: FORMULATION HWS-512
EPA Reg#: 47371-191
Registrant: H & S CHEMICALS DIVISION
Approval Date: 07/10/2002
Active Ingredients Didecyl dimethyl ammonium chloride 20.28%
Alkyl*dimethyl benzyl ammonium chloride*(50%C12, 30%C14, 17%C16, 3%C18) 13.52%

Product: FULLSAN
EPA Reg#: 2915-55
Registrant: Fuller Brush Co.
Approval Date: 05/16/2003
Active Ingredients:
Alkyl* dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14)1.6%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 1.6%
Product:    H2 ORANGE2 CONCENTRATE 117  
EPA Reg#:   69264-2  
Registrant:  Envirox, LLC  
Approval Date: 09/10/98  
Active Ingredients: Hydrogen peroxide  3.950%

Product:    HD-64  
EPA Reg#:   1839-211 (transferred from EPA Reg#3377-66; for label see EPA Reg#3377-66)  
Registrant:  STEPAN CO.  
Approval Date: 11/08/2001  
Active Ingredients: Didecyl dimethyl ammonium chloride  2.304%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 2.304%

Product:    HD-128  
EPA Reg#:   1839-213 (transferred from EPA Reg# 3377-68; for label see EPA Reg#3377-68 ) 
Registrant:  STEPAN CO.  
Approval Date: 11/09/2001  
Active Ingredients: Didecyl dimethyl ammonium chloride  5.63%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 4.608%

Product:    HD-256  
EPA Reg#:   1839-212 (transferred from EPA Reg#3377-67; for label see EPA Reg#3377-67 )  
Registrant:  STEPAN CO  
Approval Date: 11/09/2001  
Active Ingredients: Didecyl dimethyl ammonium chloride  11.26%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 9.224%

Product:    HOSPITAL DISINFECTANT CLEANER  
EPA Reg#:   7546-27  
Registrant:  U S CHEMICAL CORPORATION  
Approval Date: 08/03/2007  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-,, chloride  8.704%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 8.19%

Product:    HOSPITAL DISINFECTANT CLEANER  
EPA Reg#:   5736-104  
Registrant:  JOHNSON DIVERSEY COMPANY  
Approval Date: 08/02/-2007  
Active Ingredients: Didecyl dimethyl ammonium chloride  8.704%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 8.19%
Product: HUSKY 805 C/D  
EPA Reg#: 8155-22  
Registrant: CANBERRA CORP  
Approval Date: 12/06/2004  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 15.36%

Product: HUSKY 806 H/D/N  
EPA Reg#: 8155-23  
Registrant: CANBERRA CORP  
Approval Date: 11-Jun-2003  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 7.68%

Product: HUSKY 800 N/D  
EPA Reg#: 8155-24  
Registrant: CANBERRA CORP  
Approval Date: 30-Apr-1997  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 3.85%

Product: KENNELSOL HC  
EPA Reg#: 62472-2  
Registrant: Alpha Tech Pet Inc.  
Approval Date: 11/21/2006  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 10.14%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 6.76%

Product: KWIKKILL DISINFECTANT DEODORIZING CLEANING WIPES  
EPA Reg#: 59894-10  
Registrant: M&S Research  
Approval Date: 08/26/2008  
Active Ingredient: Isopropanol 41.58%  
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 0.12%  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.12%

Product: LEM-O-DIS 19-30  
EPA Reg#: 3862-53  
Registrant: ABC Compounding Co Inc.  
Approval Date: 03/2175  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 1.6%  
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 1.6%

Product: LIQUID-PAK NEUTRAL DISINFECTANT CLEANER  
EPA Reg#: 1839-176  
Registrant: Stepan Co.  
Approval Date: 01/10/2007  
Active Ingredients: Dioctyl dimethyl ammonium chloride 7.62%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 20.32%  
Didecyl dimethyl ammonium chloride 7.62%;Octyl decyl dimethyl ammonium chloride 15.24%
Product: LONZA DISINFECTING WIPES
EPA Reg#: 6836-313
Registrant: Lonza Inc
Approval Date: 08/15/2007
Active Ingredients: 1-Decanaminium, N,N-dimethyl-N-octyl-chloride .069%;
1-Decanaminium, N-decyl-N,N-dimethyl-chloride .042%;
1-Octanaminium, N,N-dimethyl-N-octyl-chloride .028%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) .093%

Product: LONZA FORMULATION DC-103
EPA Reg#: 6836-152
Registrant: LONZA INC
Approval Date: 03/28/2008
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.01%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 0.034%
Didecyl dimethyl ammonium chloride 0.015 % ;
Octyl decyl dimethyl ammonium chloride 0.025%

Product: LONZA FORMULATION DC-108N
EPA Reg#: 6836-205
Registrant: LONZA INC
Approval Date: 07/23/2003
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-chloride 15.36%

Product: LONZA FORMULATION DC-109N
EPA Reg#: 6836-206
Registrant: LONZA INC
Approval Date: 10/16/2003
Active Ingredients: Didecyl dimethyl ammonium chloride 7.68%

Product: LONZA FORMULATION DC-110N
EPA Reg#: 6836-204
Registrant: LONZA INC
Approval Date: 04/18/2003
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-chloride 3.85%

Product: LONZA FORMULATION DCN 400-64
EPA Reg#: 6836-269
Registrant: LONZA INC
Approval Date: 09/05/2001
Active Ingredients: Didecyl dimethyl ammonium chloride 5.12%

Product: LONZA FORMULATION DCN 400-128
EPA Reg#: 6836-268
Registrant: LONZA INC
Approval Date: 09/05/2001
Active Ingredients: Didecyl dimethyl ammonium chloride 10.24%
Product: LONZA FORMULATION DCN 400-256
EPA Reg#: 6836-267
Registrant: LONZA INC
Approval Date: 09/05/2001
Active Ingredients: Didecyl dimethyl ammonium chloride 20.48%

Product: LONZA FORMULATION R-18F
EPA Reg#: 6836-136
Registrant: LONZA INC
Approval Date: 06/18/90
Active Ingredients: Dioctyl dimethyl ammonium chloride 1.302%
Alkyl dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 4.34%
Didecyl dimethyl ammonium chloride 1.953%;
Octyl decyl dimethyl ammonium chloride 3.255%

Product: LONZA FORMULATION R-82
EPA Reg#: 6836-78
Registrant: LONZA INC
Approval Date: 06/19/2007
Active Ingredients: Dioctyl dimethyl ammonium chloride 2.604%
Alkyl dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 8.68%
Didecyl dimethyl ammonium chloride 3.906%;
Octyl decyl dimethyl ammonium chloride 6.51%

Product: LONZA FORMULATION R-82F
EPA Reg#: 6836-139
Registrant: LONZA INC
Approval Date: 12/22/2006
Active Ingredients: Dioctyl dimethyl ammonium chloride 2.604%
Alkyl dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 8.68%
Didecyl dimethyl ammonium chloride 3.906%;
Octyl decyl dimethyl ammonium chloride 6.51%

Product: LONZA FORMULATION S-18
EPA Reg#: 6836-77
Registrant: LONZA INC
Approval Date: 11/07/2006
Active Ingredients: Dioctyl dimethyl ammonium chloride 1.302%
Alkyl dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 4.340%
Didecyl dimethyl ammonium chloride 1.953%;
Octyl decyl dimethyl ammonium chloride 3.255%

Product: LONZA FORMULATION S-18F
EPA Reg#: 6836-136
Registrant: LONZA INC
Approval Date: 08/14/2007
Active Ingredients: Dioctyl dimethyl ammonium chloride 1.302%
Alkyl dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 4.34%
Didecyl dimethyl ammonium chloride 1.953%; Octyl decyl dimethyl ammonium chloride 3.255%
Product: LONZA FORMULATION S-21  
EPA Reg#: 6836-75  
Registrant: LONZA INC  
Approval Date: 11/07/2006  
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.66%  
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 2.2%  
Didecyl dimethyl ammonium chloride 0.99%; Octyl decyl dimethyl ammonium chloride 1.65%

Product: LONZA FORMULATION S-21F  
EPA Reg#: 6836-140  
Registrant: LONZA INC  
Approval Date: 08/14/2007  
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.66%  
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 2.2%  
Didecyl dimethyl ammonium chloride 0.99%; Octyl decyl dimethyl ammonium chloride 1.65%

Product: LONZA SQ SANITIZER/DISINFECTANT  
EPA Reg#: 6836-328  
Registrant: LONZA INC  
Approval Date: 05/10/2007  
Active Ingredients: Didecyl dimethyl ammonium chloride 6.84%;  
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 15.2%  
Octyl decyl dimethyl ammonium chloride 11.4%; Dioctyl dimethyl ammonium chloride 4.56%

Product: MAQUAT 5.5-M  
EPA Reg#: 10324-80  
Registrant: MASON CHEMICAL CO  
Approval Date: 04/01/2005  
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.825%  
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 2.2%  
Didecyl dimethyl ammonium chloride 0.825%;  
Octyl decyl dimethyl ammonium chloride 1.65%

Product: MAQUAT 7.5-M  
EPA Reg#: 10324-81  
Registrant: MASON CHEMICAL CO  
Approval Date: 09/07/2006  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-chloride 1.125%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 3%  
1-Octanaminium, N,N-dimethyl-N-octyl-chloride 1.125%;  
1-Decanaminium, N,N-dimethyl-N-octyl-chloride 2.25%

Product: MAQUAT 10  
EPA Reg#: 10324-63  
Registrant: MASON CHEMICAL CO  
Approval Date: 12/28/2005  
Active Ingredients:  
Alkyl*dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 5.0%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 5.0%
Product: MAQUAT 10-B  
EPA Reg#: 10324-143  
Registrant: MASON CHEMICAL CO  
Approval Date: 08/08/2008  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 5%  
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 5%  

Product: MAQUAT 10 PD  
EPA Reg#: 10324-99  
Registrant: MASON CHEMICAL CO  
Approval Date: 02/17/2005  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 5%  
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 5%  

Product: MAQUAT 12 MN  
EPA Reg#: 10324-163  
Registrant: MASON CHEMICAL CO  
Approval Date: 10/04/2006  
Active Ingredients:  
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride 0.138%  
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 0.138%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 0.368%  
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride 0.276%  

Product: MAQUAT 20-M  
EPA Reg#: 10324-94  
Registrant: MASON CHEMICAL CO  
Approval Date: 12/26/2006  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 10.0%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 10.0%  

Product: MAQUAT 32  
EPA Reg#: 10324-166  
Registrant: MASON CHEMICAL CO  
Approval Date: 09/20/2006  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.781%  
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 0.781%  

Product: MAQUAT 32 MN  
EPA Reg#: 10324-114  
Registrant: MASON CHEMICAL CO  
Approval Date: 03/01/2006  
Active Ingredients:  
Dioctyl dimethyl ammonium chloride 0.407%  
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 1.085%  
Didecyl dimethyl ammonium chloride 0.407%; Octyl decyl dimethyl ammonium chloride 0.814%
Product: MAQUAT 32-NHQ
EPA Reg#: 10324-157
Registrant: MASON CHEMICAL CO
Approval Date: 01/16/2007
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-chloride 1.268%
Alkyl*dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 0.845%

Product: MAQUAT 32 MN-FCS
EPA Reg#: 10324-179
Registrant: MASON CHEMICAL CO
Approval Date: 10/01/2008
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.407%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 1.085%
Didecyl dimethyl ammonium chloride 0.407%; Octyl decyl dimethyl ammonium chloride 0.814%

Product: MAQUAT 32PD
EPA Reg#: 10324-167
Registrant: MASON CHEMICAL CO
Approval Date: 09/20/2006
Active Ingredients:
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14) 0.781%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.781%

Product: MAQUAT 64
EPA Reg#: 10324-59
Registrant: MASON CHEMICAL CO
Approval Date: 08/29/2008
Active Ingredients:
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 2.25%
Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 2.25%

Product: MAQUAT 50DS
EPA Reg#: 10324-96
Registrant: MASON CHEMICAL CO
Approval Date: 08/08/2008
Active Ingredients:
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12,32%C14) 25.0%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14,30%C16, 5%C12, 5%C18) 25.0%

Product: MAQUAT 64-1010N
EPA Reg#: 10324-147
Registrant: MASON CHEMICAL CO
Approval Date: 02/21/2006
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 3.84%
Product: MAQUAT 64 EBC
EPA Reg#: 10324-120
Registrant: MASON CHEMICAL CO
Approval Date: 04/25/2006
Active Ingredients:
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12,32%C14)  2.7125%
Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12)  2.7125%

Product: MAQUAT 64 MN
EPA Reg#: 10324-113
Registrant:: MASON CHEMICAL CO
Approval Date: 03/01/2006
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.814%
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16)  2.17%
Didecyl dimethyl ammonium chloride 0.814%;
Octyl decyl dimethyl ammonium chloride 1.627%

Product: MAQUAT 64 MN-FCS
EPA Reg#: 10324-180
Registrant: MASON CHEMICAL CO
Approval Date: 10/03/2008
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.814%
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16)  2.17%
Didecyl dimethyl ammonium chloride 0.814%; Octyl decyl dimethyl ammonium chloride 1.627%

Product: MAQUAT 64-NHQ
EPA Reg#: 10324-154
Registrant: MASON CHEMICAL CO
Approval Date: 01/16/2007
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 1.69%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16)  2.535%

Product: MAQUAT 64 PD
EPA Reg#: 10324-93
Registrant: MASON CHEMICAL CO
Approval Date: 11/22/2005
Active Ingredients: Alkyl* dimethyl ethylenbenzyl ammonium chloride *(68%C12, 32%C14)  2.250%
Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12)  2.250%

Product: MAQUAT 64-PD-X
EPA Reg#: 10324-170
Registrant: MASON CHEMICAL CO
Approval Date: 06/06/2007
Active Ingredients:
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14)  1.563%
Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12)  1.563%
Product: MAQUAT 64-X  
EPA Reg#: 10324-173  
Registrant: MASON CHEMICAL CO  
Approval Date: 08/31/2007  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14)  1.563%  
Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12)  1.563%

Product: MAQUAT 86-M  
EPA Reg#: 10324-85  
Registrant: MASON CHEMICAL CO  
Approval Date: 02/08/2006  
Active Ingredients:  
Dioctyl dimethyl ammonium chloride  0.0135%  
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16)  0.034%  
Didecyl dimethyl ammonium chloride  0.013%; Octyl decyl dimethyl ammonium chloride 0.026%

Product: MAQUAT 128  
EPA Reg#: 10324-58  
Registrant: MASON CHEMICAL CO  
Approval Date: 11/23/2005  
Active Ingredients:  
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14)  4.5%  
Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12)  4.5%

Product: MAQUAT 128-1010N  
EPA Reg#: 10324-146  
Registrant: MASON CHEMICAL CO  
Approval Date: 12/21/2004  
Active Ingredients:  
1-Decanaminium, N-decyl-N,N-dimethyl-chloride  7.68 %

Product: MAQUAT 128 EBC  
EPA Reg#: 10324-119  
Registrant: MASON CHEMICAL CO  
Approval Date: 07/01/2004  
Active Ingredients:  
Alkyl*dimethyl ethylbenzylammonium chloride*(68%C12, 2%C14)5.425 %  
Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 5.425%
Product: MAQUAT 128 MN
EPA Reg#: 10324-112
Registrant: MASON CHEMICAL CO
Approval Date: 03/01/2006
Active Ingredients: Dioctyl dimethyl ammonium chloride 1.628%
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 4.339%
Didecyl dimethyl ammonium chloride 1.628%; Octyl decyl dimethyl ammonium chloride 3.255%

Product: MAQUAT 128 MN-FCS
EPA Reg#: 10324-181
Registrant: MASON CHEMICAL CO
Approval Date: 10/07/2008
Active Ingredients: Dioctyl dimethyl ammonium chloride 1.628%
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 4.339%
Didecyl dimethyl ammonium chloride 1.628%; Octyl decyl dimethyl ammonium chloride 3.255%

Product: MAQUAT 128-NHQ
EPA Reg#: 10324-155
Registrant: MASON CHEMICAL CO
Approval Date: 01/16/2007
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 5.07%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 3.38%

Product: MAQUAT 128 PD
EPA Reg#: 10324-105
Registrant: MASON CHEMICAL CO
Approval Date: 11/22/2005
Active Ingredients:
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14) 4.5%
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 4.5%

Product: MAQUAT 128 PD-X
EPA Reg#: 10324-171
Registrant: MASON CHEMICAL CO
Approval Date: 04/07/2008
Active Ingredients:
n-Alkyl* dimethyl benzyl ammonium chloride*(60% C14,30%C16, 5%C12, 5%C18) 3.125%
n-Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 3.125%

Product: MAQUAT 128-X
EPA Reg#: 10324-172
Registrant: MASON CHEMICAL CO
Approval Date: 08/31/2007
Active Ingredients:
Alkyl*dimethyl benzyl ammonium chloride*(60% C14, 30%C16, 5%C18, 5%C12) 3.125%
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14) 3.125%
Product: MAQUAT 256
EPA Reg#: 10324-56
Registrant: MASON CHEMICAL CO
Approval Date: 08/16/2005
Active Ingredients:
Alkyl*dimethyl ethylbenzyl ammonium chloride*(68%C12, 32%C14)6.25%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 6.25%

Product: MAQUAT 256-1010N
EPA Reg#: 10324-134
Registrant: MASON CHEMICAL CO
Approval Date: 05/10/2004
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 15.36%

Product: MAQUAT 256 EBC
EPA Reg#: 10324-118
Registrant: MASON CHEMICAL CO
Approval Date: 04/25/2006
Active Ingredients:
Alkyl*dimethyl ethylbenzylammonium chloride*(68%C12, 32%C14)10.85%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 10.85%

Product: MAQUAT 256 MN
EPA Reg#: 10324-108
Registrant: MASON CHEMICAL CO
Approval Date: 03/01/2006
Active Ingredients: Dioctyl dimethyl ammonium chloride 3.255%
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 8.68%
Didecyl dimethyl ammonium chloride 3.255%;
Octyl decyl dimethyl ammonium chloride 6.51%

Product: MAQUAT 256 MN-FCS
EPA Reg#: 10324-144
Registrant: MASON CHEMICAL CO
Approval Date: 03/09/2007
Active Ingredients: Dioctyl dimethyl ammonium chloride 3.255%
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 8.68%
Didecyl dimethyl ammonium chloride 3.255%; Octyl decyl dimethyl ammonium chloride 6.51%

Product: MAQUAT 256-NHQ
EPA Reg#: 10324-141
Registrant: MASON CHEMICAL CO
Approval Date: 01/16/2007
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 10.14%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 6.76%
Product: MAQUAT 256-PD  
EPA Reg#: 10324-164  
Registrant: MASON CHEMICAL CO  
Approval Date: 03/30/2006  
Active Ingredients: Alkyl* dimethyl benzyl ammonium chloride 6.25%  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14)  6.25%

Product: MAQUAT 512-NHQ  
EPA Reg#: 10324-156  
Registrant: MASON CHEMICAL CO  
Approval Date: 01/16/2007  
Active Ingredients: 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 20.28%  
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16)  13.52%

Product: MAQUAT 615-HD  
EPA Reg#: 10324-72  
Registrant: MASON CHEMICAL CO  
Approval Date: 02/08/2006  
Active Ingredients: Dioctyl dimethyl ammonium chloride 3.255%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16)  8.68%  
Didecyl dimethyl ammonium chloride 3.255%; Octyl decyl dimethyl ammonium chloride 6.51%

Product: MAQUAT 705 M  
EPA Reg#: 10324-177  
Registrant: MASON CHEMICAL CO  
Approval Date: 02/15/2008  
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.75%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 2.0%  
Didecyl dimethyl ammonium chloride 0.75%; Octyl decyl dimethyl ammonium chloride 1.5%

Product: MAQUAT 710-M  
EPA Reg#: 10324-117  
Registrant: MASON CHEMICAL CO  
Approval Date: 11/14/2006  
Active Ingredients: 1-Decanaminium, N,N-dimethyl-N-octyl-, chloride 3%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 4%  
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride 1.5%;  
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 1.5%

Product: MAQUAT 750-M  
EPA Reg#: 10324-115  
Registrant: MASON CHEMICAL CO  
Approval Date: 11/09/2006  
Active Ingredients: 1-Decanaminium, N,N-dimethyl-N-octyl-, chloride 15%  
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 20%  
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride 7.5%;  
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 7.5%
Product: MAQUAT FP
EPA Reg#: 10324-145
Registrant: MASON CHEMICAL CO
Approval Date: 07/21/2006
Active Ingredients:
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 2.7125%
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 2.7125%

Product: MAQUAT MQ2525M-14
EPA Reg#: 10324-142
Registrant: MASON CHEMICAL CO
Approval Date: 12/28/2005
Active Ingredients:
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 7.04%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 7.04%

Product: MAXIMA 128
EPA Reg#: 106-72
Registrant: BRULIN & COMPANY INC
Approval Date: 02/15/2008
Active Ingredients: Dioctyl dimethyl ammonium chloride 1.05%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 2.8%
Didecyl dimethyl ammonium chloride 1.42%;
Octyl decyl dimethyl ammonium chloride 2.1%

Product: MAXIMA 256
EPA Reg#: 106-73
Registrant: BRULIN & COMPANY INC
Approval Date: 03/14/2008
Active Ingredients: Dioctyl dimethyl ammonium chloride 2.1015%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 5.604 %
Didecyl dimethyl ammonium chloride 2.8315%
Octyl decyl dimethyl ammonium chloride 4.2030%

Product: MAXIMA RTU
EPA Reg#: 106-81
Registrant: Brulin & Company Inc.
Approval Date: 03/19/2004
Active Ingredients: 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride 0.0123%
Alkyl*dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 0.0328%
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 0.0166%;
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride 0.0246%
Product: MICROBAN QGC
EPA Reg#: 70386-6 (transferred from RPA Reg# 70263-6; for label see EPA Reg# 70263-6)
Registrant: MICROBAN SYSTEMS INC
Approval Date: 08/18/2006
Active Ingredients: Octyl decyl dimethyl ammonium chloride 1.65%
Dioctyl dimethyl ammonium chloride 0.66%; Didecyl dimethyl ammonium chloride 0.99%
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chloride 2.20%

Product: MICROBAN PROFESSIONAL STRENGTH MULTI-PURPOSE ANTIBACTERIAL CLEANER
EPA Reg#: 70385-8 (transferred from EPA Reg# 70263-8; for label see EPA Reg# 70263-8)
Registrant: MICROBAN SYSTEMS INC
Approval Date: 07/28/2006
Active Ingredients: 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride 0.01%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 0.034%
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride 0.025%;
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride 0.015%

Product: MINNCARE COLD STERILANT
EPA Reg#: 52252-4
Registrant: MINNTECH CORP
Approval Date: 11/17/88
Active Ingredients: Hydrogen peroxide 22.0%; Peroxyacetic acid 4.5%

Product: NABC
EPA Reg#: 5741-18
Registrant: SPARTAN CHEMICAL COMPANY, INC
Approval Date: 11/20/2002
Active Ingredients: Dioctyl dimethyl ammonium chloride 0.0600%
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16) 0.16%
Didecyl dimethyl ammonium chloride 0.06%;
Octyl decyl dimethyl ammonium chloride 0.12%

Product: NADBC-101
EPA Reg#: 70627-3
Registrant: S.C. Johnson Commercial Markets Inc.
Approval Date: 03/12/99
Active Ingredients: Alkyl*dimethylethylbenzyl ammoniumchloride*(68%C12, 32%C14)0.106%
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.106%
**Product:** NP 3.2 DETERGENT/DISINFECTANT  
**EPA Reg#:** 1839-78  
**Registrant:** STEPAN COMPANY  
**Approval Date:** 07-Mar-1980  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride* (68%C12, 32%C14) 1.6%  
Alkyl* dimethyl benzyl ammonium chloride* (60%C14, 30%C16, 5%C18, 5%C12) 1.6%

**Product:** NP 3.2 (D & F) DETERGENT/DISINFECTANT  
**EPA Reg#:** 1839-94  
**Registrant:** STEPAN COMPANY  
**Approval Date:** 04/25/2006  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride* (68%C12, 32%C14) 1.6%  
Alkyl* dimethyl benzyl ammonium chloride* (60%C14, 30%C16, 5%C18, 5%C12) 1.6%

**Product:** NP 4.5 (D & F) DETERGENT/DISINFECTANT  
**EPA Reg#:** 1839-95  
**Registrant:** Stepan Company  
**Approval Date:** 06/14/2007  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride* (68%C12, 32%C14) 2.25%  
Alkyl* dimethyl benzyl ammonium chloride* (60%C14, 30%C16, 5%C18, 5%C12) 2.25%

**Product:** NP 4.5 DETERGENT/DISINFECTANT  
**EPA Reg#:** 1839-79  
**Registrant:** Stepan Company  
**Approval Date:** 06/14/2007  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride* (68%C12, 32%C14) 0.25%  
Alkyl* dimethyl benzyl ammonium chloride* (60%C14, 30%C16, 5%C18, 5%C12) 0.25%

**Product:** NP 9.0 DETERGENT/DISINFECTANT  
**EPA Reg#:** 1839-81  
**Registrant:** STEPAN COMPANY  
**Approval Date:** 06/22/2005  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride* (68%C12, 32%C14) 4.5%  
Alkyl* dimethyl benzyl ammonium chloride* (60%C14, 30%C16, 5%C18, 5%C12) 4.5%

**Product:** NP 9.0 (D & F) DETERGENT/DISINFECTANT  
**EPA Reg#:** 1839-96  
**Registrant:** Stepan Company  
**Approval Date:** 01/11/2006  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride* (68%C12, 32%C14) 4.5%  
Alkyl* dimethyl benzyl ammonium chloride* (60%C14, 30%C16, 5%C18, 5%C12) 4.500%
Product: OPTI-CIDE 3
EPA Reg#: 70144-1
Registrant: Micro-Scientific Industries Inc.
Approval Date: 12/19/2006
Active Ingredients: Isopropanol 1%
   n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides 0.154%
   n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides 0.154%

Product: OPTI-CIDE 3 WIPES
EPA Reg#: 70144-2
Registrant: Micro-Scientific Industries Inc.
Approval Date: 08/08/2007
Active Ingredients: n-Alkyl (60%C14, 30%C16, 5%C12, 5%C18) dimethyl benzyl ammonium chlorides 0.154%
   n-Alkyl (68%C12, 32%C14) dimethyl ethylbenzyl ammonium chlorides 0.154%

Product: OXIVIR TB
EPA Reg#: 70627-56
Registrant: JOHNSON DIVERSEY Inc.
Approval Date: 05/02/2007
Active Ingredients: Hydrogen peroxide 0.5%

Product: OXIVIR WIPES
EPA Reg#: 70627-60
Registrant: JOHNSON DIVERSEY Inc.
Approval Date: 02/14/2008
Active Ingredients: Hydrogen peroxide 0.5%

Product: OXY-TEAM DISINFECTANT CLEANER
EPA Reg#: 70627-58
Registrant: JOHNSON DIVERSEY Inc.
Approval Date: 09/04/2008
Active Ingredients: Hydrogen peroxide 4.25%

Product: PHENOLIC DISINFECTANT HG
EPA Reg#: 70627-6
Registrant: S.C. JOHNSON COMMERCIAL MARKETS INC.
Approval Date: 10/06/98
Active Ingredients: Benzyl-4-chlorophenol 10.5% ; Phenylphenol 10.5%

Product: PRO-TECH DISINFECTANT CLEANER
EPA Reg#: 211-63
Registrant: CENTRAL SOLUTIONS, INC
Approval Date: 10-Jul-1996
Active Ingredients: Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.105%
   Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.105%
**Product:** PUBLIC PLACES  
**EPA Reg#:** 61178-2  
**Registrant:** MICROGEN, INC  
**Approval Date:** 05/30/89  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.07%  
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 0.07%  

**Product:** PUBLIC PLACES TOWELETTE  
**EPA Reg#:** 61178-4  
**Registrant:** MICROGEN, INC  
**Approval Date:** 01/23/97  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.07%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.07%  

**Product:** Q.A. CONCENTRATED SOLUTION  
**EPA Reg#:** 6198-4  
**Registrant:** NATIONAL CHEMICALS INC.  
**Approval Date:** 11/05/2007  
**Active Ingredients:**  
n-Alkyl* dimethyl benzyl ammonium chloride*(60%C14, 30%C18, 5%C12, 5%C18) 5.0%  
n-Alkyl* dimethyl ethylbenzyl ammonium chloride*(32%C14, 68%C12) 5.0%  

**Product:** QUANTUM TB DISINFECTANT  
**EPA Reg#:** 1677-199  
**Registrant:** ECOLAB INC  
**Approval Date:** 08/07/2007  
**Active Ingredients:** Caprylic acid 0.138%  

**Product:** RAYSIDE  
**EPA Reg#:** 70369-2  
**Registrant:** Chemlink Laboratories LLC  
**Approval Date:** 5/23/2005  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 3.625%  
Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12) 3.625%  

**Product:** SANI-CLOTH GERMICIDAL DISPOSABLE WIPES  
**EPA Reg#:** 9480-4  
**Registrant:** PDI  
**Approval Date:** 11/01/2007  
**Active Ingredients:**  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14,30%C16,5%C18,5%C12) 0.25%  
Alkyl*dimethyl ethylbenzyl ammonium chloride *(68%C12,32%C14) 0.25%
Product: SANI-CLOTH PLUS GERMICIDAL DISPOSAL CLOTH  
EPA Reg#: 9480-6  
Registrant: PDI  
Approval Date: 01/06/1999  
Active Ingredients: Isopropanol 14.85%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.125%  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.125%  

Name: SHIELD  
EPA Reg#: 67619-17  
Registrant: CLOROX PROFESSIONAL PRODUCTS CO.  
Approval Date: 09/03/2008  
Active Ingredient: Sodium hypochlorite 1.84%  

Product: SPOR-KLENZ RTU  
EPA Reg#: 1043-119  
Registrant: Steris Corp.  
Approval Date: 26-Sep-2005  
Active Ingredients: Hydrogen peroxide 1%; Ethaneperoxoic acid 0.08%  

Product: SPRAY NINE  
EPA Reg#: 6659-3  
Registrant: Knight Marketing Corp.  
Approval Date: 07/10/2008  
Active Ingredients:  
Alkyl*dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18,5%C12) 0.15%  
Alkyl*dimethyl ethylbenzyl ammonium chloride* (68%C12, 32%C14) 0.15%  

Product: SPRAY N SAN II  
EPA Reg#: 2915-66  
Registrant: FULLER BRUSH COMPANY, THE  
Approval Date: 12/11/1997  
Active Ingredients:  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14,30%C16,5%C18,5%C12) 0.105%  
Alkyl*dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.105%  

Product: SUPER BOL  
EPA Reg#: 5736-102  
Registrant: JOHNSON DIVERSEY  
Approval Date: 12-Jul-2005  
Active Ingredients:  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.106%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.106%
**Product:** STERIPHENE II BRAND DISINFECTANT DEODORANT  
**EPA Reg#:** 5741-22  
**Registrant:** SPARTAN CHEMICAL COMPANY, INC  
**Approval Date:** 10/12/88  
**Active Ingredients:** Ethyl alcohol 64.0%  
2-Benzyl-4-chlorophenol 0.071%; o-Phenylphenol 0.051%

**Product:** TNT TUB and TILE CLEANER  
**EPA Reg#:** 5741-14  
**Registrant:** SPARTAN CHEMICAL  
**Approval Date:** 08/15/2002  
**Active Ingredients:**  
Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14) 0.075%  
Alkyl*dimethyl benzyl ammonium chloride*(60%C14, 30%C16, 5%C18, 5%C12) 0.075%

**Product:** VIRAHOL HOSPITAL DISINFECTANT/CLEANER& INSTRUMENT PRESOAK  
**EPA Reg#:** 60142-1  
**Registrant:** VERIDIEEN CORP  
**Approval Date:** 02/27/2004  
**Active Ingredients:** Isopropyl alcohol 70%

**Product:** VIRAHOL HOSPITAL SURFACE DISINFECTANT TOWELETTE  
**EPA Reg#:** 60142-3  
**Registrant:** VERIDIEEN CORP  
**Approval Date:** 09/05/2006  
**Active Ingredients:** Isopropanol 70.00%

**Product:** VIRKON  
**EPA Reg#:** 71654-7  
**Registrant:** E.I. DUPONT DE NEMOURS AND COMPANY  
**Approval Date:** 07/27/2006  
**Active Ingredients:** Sodium chloride 1.5%; Potassium peroxymonosulfate 21.45%

**Product:** VIREX II/256  
**EPA Reg#:** 70627-24  
**Registrant:** S.C. Johnson Commercial Markets Inc.  
**Approval Date:** 12/28/1990  
**Active Ingredients:** Didecyl dimethyl ammonium chloride 8.704%  
Alkyl* dimethyl benzyl ammonium chloride*(50%C14, 40%C12, 10%C16) 8.19%

**Product:** ZZZ DISINFECTANT  
**EPA Reg#:** 4959-16  
**Registrant:** West Agro Inc.  
**Approval Date:** 01/26/2007  
**Active Ingredients:** Nonylphenoxypolyethoxyethanol-iodine complex 1.75%
**Numerical Order**

**List D: EPA's Registered Antimicrobial Products Effective Against Human HIV-1 and Hepatitis B virus** (Updated January 9, 2009)

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